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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/341,590	07/12/1999	BJARNE DUE LARSEN	55508 (45487)	5316		
21874 75	90 05/19/2005		EXAM	EXAMINER		
EDWARDS & ANGELL, LLP			LUKTON	LUKTON, DAVID		
P.O. BOX 5587 BOSTON, MA			ART UNIT	PAPER NUMBER		
			1653			
			DATE MAILED: 05/19/2003	DATE MAILED: 05/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

			tion No.	Applicant(s)				
Office Action Summary		09/341,	09/341,590 LARSEN, BJARNE DUI		UE °			
		Examin	er	Art Unit				
		David Lu	<u> </u>	1653				
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	he cover sheet with the c	correspondence addre	ss			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI INSIDE OF THIS COMMUNI INSIDE OF THIS COMMUNI INSIDE OF THIS COMMUNIATION OF THE OF	CATION. of 37 CFR 1.136(a). In no elunication. 0) days, a reply within the statutory period will apply and will, by statute, cause the a	event, however, may a reply be tin atutory minimum of thirty (30) day will expire SIX (6) MONTHS from oplication to become ABANDONE	nely filed . s will be considered timely. the mailing date of this commi	unication.			
Status								
1)⊠	Responsive to communication(s) file	ed on <u>04 May 2005</u> .						
2a)□	This action is FINAL .	2b)⊠ This action is	non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠	Claim(s) <u>83,87,88,90,101 and 102</u> is 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>83,87,90,101 and 102</u> is/ar Claim(s) <u>88</u> is/are objected to. Claim(s) are subject to restrict	re withdrawn from o	consideration.					
Applicat	ion Papers							
9)[The specification is objected to by the	e Examiner.						
10)	The drawing(s) filed on is/are:	a)☐ accepted or l	o) objected to by the	Examiner.				
	Applicant may not request that any object		·	• ,				
· 11)	Replacement drawing sheet(s) including The oath or declaration is objected to	*		-	• •			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation See the attached detailed Office action	documents have be documents have be of the priority docur nal Bureau (PCT R	een received. een received in Applicat nents have been receive ule 17.2(a)).	ion No ed in this National Sta	age			
Attachmen			_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P	TO-948)	4) Interview Summary Paper No(s)/Mail D					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or Process) results and the results of t			Patent Application (PTO-15	2)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Serial No. 09/341590 Art Unit 1653

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/4/05 has been entered.

✦

Claims 83, 87, 88, 90, 101 and 102 are now pending. Claims 83, 87, 88, 90, 101 and 102 are rejected in this Office action; claim 88 is objected to because of its dependence on a rejected claim.

The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 83 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 83 is drawn to a peptide conjugate comprising X and Z, wherein "Z" is $(Lys)_{4-10}$, and "X" is any of several possibilities. One of those possibilities for X is SEQ ID NO: 98, which is the second to last entry in the claim.

Art Unit 1653

issue is not that support is lacking for SEQ ID NO: 98; rather, the issue is whether support exists for any of the following:

YGGFLKEEEEKKKKK

YGGFLKEEEEKKKKKKK

YGGFLKEEEEKKKKKKKKK

YGGFLKEEEEKKKKKKKKKKK

It does not appear that support exists for any of the foregoing. Applicants are requested to point to the relevant page and line number.

Claims 83, 87, 90, 101 and 102 are rejected under 35 U.S.C. §112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- In claim 87, integers "4", 5 and "6" should appear as subscripts.
- In claim 90, there is a peptide that is designated as SEQ ID NO: 99. The sequence that is recited in the claim shows lysine as the C-terminal amino acid. However, in SEQ ID NO: 99 of the sequence listing, the C-terminal amino acid is glutamic acid, not lysine.
- Claim 101 recites the following: "from about 4 to 10".

Use of the term "about" in this way renders the upper and lower limits of the claim indefinite. Another layer of indefiniteness exists as well, since claim 83 imposes a strict lower limit of 4 on the value of "n", whereas claim 101 would permit "n" to be 3, or even less. Accordingly, the claim dependence is improper. However, even if claim 101 were to be written in independent form, the rejection would be maintained, since use of the term "about" in this way renders the upper and lower limits of the claim indefinite. The same issues apply in the case of claim 102.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. §102 that form the basis for the rejections under this section made in this action.

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 83 is rejected under 35 U.S.C. §102(e) as being anticipated by Kemp (USP 5,688,760).

Kemp discloses a peptide in figure 1. As is evident, the subsequence TRSAW occurs at residues 107-111, and (Lys)₄ occurs at residues 147-150. [The sequence TRSAW corresponds to SEQ ID NO: 53 of the instant application].

The issue here concerns the term "having". Claim 83 does not recite that "Z" consists of (Lys)₄₋₁₀, but rather that "Z" is a peptide "having" the sequence (Lys)₄₋₁₀. Accordingly, one can add any number of amino acids to the N-terminus of "Z" before bonding to "X".

Thus, the claim is anticipated.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton whose telephone number is 571-272-0952. The examiner can normally be reached Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber, can be reached at 571-272-0925. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

DAVID LUKTON
PATENT EXAMINER
GROUP 1900